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(54) Title: POLYMERIC FILMS

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(57) Abstract

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In-mold labelled, blow-molded articles formed from high density polyethylene, the labels being formed from biaxially oriented polypropylene based films having a shrinkage of at least 4 % in both the machine and transverse directions as measured by the OPMA shrink test in which the film is suspended in an oven at 130 °C for a period of 10 minutes. The use of films with the specified shrinkage enables blistering and "orange peel" effects to be avoided when the blow-molding is carried out.

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- 1 -

Polymeric Films

This invention concerns polymeric films and in particular the use of such films for the in-mold labelling of articles.

The in-mold labelling of articles, in which a label is incorporated into the surface of an article made from a polymeric material as the article is formed, is a well known technique. Many proposals have therefore been made concerning materials which can be used to form the articles, the materials of which the labels are formed, and the processing conditions under which the articles are formed and therefore labelling itself is effected.

Important factors in achieving satisfactory in-mold labelling are the ability of the label to adhere to the article which is being produced, and also the ability of the label to withstand the processing conditions which are encountered during the formation of the article itself. More particularly, in-mold labelling usually involves subjecting the labels to elevated

temperatures for significant periods of time, this being particularly so with blow in-mold labelling where a polymeric parison is heated to a temperature at which it can be blown into the internal shape of a mold into which a label has previously been placed.

Using polyolefinic parisons, the labels used will themselves usually be formed from polyolefins, polypropylene and polyethylene being widely used as parison materials. Typically films used for the in-mold labelling of polyolefinic parisons are also made from polyolefins, polypropylene based films being widely proposed as being suitable for use in labelling articles made by blow molding either polypropylene or polyethylene parisons.

Typical of the problems encountered using polymeric films as labels for application to articles formed by in-mold blowing of polyolefin parisons using polyolefin films as labels are poor adhesion of the label to the articles, which can be manifest as blisters under the labels, and/or undesirable effects on the labels themselves caused by the heat to which the polymeric films are subjected during formation of the articles, for example distortion and "orange peel" effects.

Many proposals have been made for overcoming such disadvantages, these usually depending on the nature of the polyolefin from which the parisons are made. It should also be appreciated that whereas little or no problems may be encountered using a particular polyolefin film to effect blow in-mold labelling of articles made from parisons of one polyolefin, the same film can suffer the disadvantages referred to above when used in blow in-mold labelling of articles made from parisons of another polyolefin. For example, if conventionally produced films consisting of either a solid or a voided polypropylene homopolymer core layer with two outer layers of a heat sealable propylene ethylene copolymer are used as in-mold labels for articles produced from polypropylene homopolymer parisons, satisfactory adhesion of the label to the article can, in

general, be readily achieved. However, if the same film is used for the blow in-mold labelling of high density polyethylene articles, blistering and/or "orange peel" effects are obtained.

Hitherto proposed methods of overcoming such problems include the provision of layers in the label films themselves which have been suggested compensate for changes in the dimensions of the labels as a result of the heat applied to them by the heated parison, such layers being formed, for example, from foamed or voided polyolefins.

It has also been proposed to use adhesive layers to improve bonding of the labels to the articles. However, the use of such materials complicates production of the films used to produce the labels and it increases their cost.

It has also been proposed that films used to form labels for in-mold labelling should be as dimensionally stable as possible during the in-mold labelling process, which in effect means that as far as possible the films should not shrink during the in-mold labelling process.

According to the present invention there is provided an in-mold labelled, blow-molded article formed from high density polyethylene, the label being formed from a biaxially oriented polypropylene based film having a shrinkage of at least 4% in both the machine and transverse directions as measured by the OPMA shrink test in which the film is suspended in an oven at 130°C for a period of 10 minutes.

Despite the widely held belief in the art that labels for in-mold labelling should have the minimum possible shrinkage when subjected to the temperatures to which they are subjected during in-mold labelling, the present invention is based on the use of films which shrink significantly at such temperatures. The minimum shrinkage in either the machine or transverse direction of the films should be at least 4% as measured by the OPMA shrink test. However, the shrinkages can be more. For

example, the machine direction shrinkage can be at least 5%, more particularly at least 6%, and as much as 7% or more, for example more than 8%. The transverse direction shrinkages can, for example, be at least 5%, more particularly at least 6%, and as much as 7% or more, for example more than 8%.

It is particularly surprising that both blistering and "orange peel" effects can be avoided by the use of films having shrinkages of greater than 4% as measured by the OPMA shrink test in both the machine and transverse directions. Furthermore, this surprising effect is observed both with polyolefin homopolymer based films having densities of not more than 0.69g/cm³, that is voided films, where "orange peel" effects have been a problem with films with shrinkages of less than 4%, and with films with densities of 0.8g/cm³ or more, where blister formation tends to occur with prior art films.

Films used for in-mold labelling in accordance with the present invention can have any of a wide variety of structures provided they have the required degree of shrinkage. However, they preferably have one or more layers of a propylene homopolymer with at least one outer layer of a heat sealable polymer, the heat sealable polymer being positioned next to the high density polyethylene when the article is blow molded so that the film adheres to the polyethylene of the article. Examples of heat sealable polymers which can be used include copolymers derived from two or more of ethylene, propylene, butene-1 and higher molecular weight a-olefins. Particularly preferred are copolymers of ethylene and propylene, and of ethylene, propylene and butene-1, such polymers preferably containing a major amount of units derived from propylene. When two heat sealable outer layers are present, they can be formed from the same or different polymeric materials.

In addition to at least one outer layer, the films can include at least one intermediate layer, the intermediate layer or layers preferably being formed from at least one polyolefin which can be a homopolymer but is preferably a copolymer derived from at least two different types of α -olefin and/or ethylene.

When an outer layer is present, the base layer and/or any intermediate layer which may be present preferably contains a hydrogenated hydrocarbon resin, it having been proposed hitherto to use such resins to increase the heat shrinkability of polyolefin films.

The polypropylene homopolymer layer or layers can contain a filler, and such fillers can act as a pigment which serves to opacify the layer or layers in which they are present, for example sub-micronic titanium dioxide, and/or they can act as a voiding agent, for example organic or inorganic fillers having particle sizes of at least lum, e.g. particulate chalk and polymeric particles such as those formed from polyamides and polyesters.

When a filler is used which induces voiding, the films will usually have densities less than that for polypropylene homopolymers, for example less than $0.9g/cm^3$, and often less than $0.69g/cm^3$.

Films used as in-mold labels in accordance with the present invention will can contain additives used in the polymeric film art. Thus they will usually include an antiblock agent in one or both outer surfaces of the films, for example silica or a particulate polyamide, e.g. a nylon. Other additives can also be present in one or more of the layers, for example slip and antistatic agents. Examples of slip agents which can be present include long chain fatty acid amides, e.g. erucamide, and glycerol mono-esters of long chain fatty acids, e.g. glycerol monostearate. Examples of antistatic agents which can be used include polyethoxylated aliphatic amines such as bis-ethoxylated long chain aliphatic amines.

Films used in accordance with the present invention to form labels for blow molded articles can in essence be produced by

known methods, subject to steps being taken to provide them with shrinkages in both the machine and transverse directions of at least 4%. Thus they will in general be produced by coextrusion of melts of the appropriate compositions through a die following which the coextrudate is biaxially oriented.

The biaxial orientation of the films can be effected either simultaneously, for example using the so-called "bubble" process, or sequentially, for example using heated rollers with different peripheral speeds to stretch the films in the direction of extrusion, and then using a stenter oven in which the films are stretched in the transverse direction. However, sequential stretching is generally preferred for reasons which will be explained.

In order to impart the desired degree of shrinkage to the films which are used in accordance with the present invention, it is important to anneal them at lower temperatures than are normally used to produce heat sealable packaging films. More particularly, it is generally preferred to effect sequential stretching of the films so that two annealing steps can be effected, the first after stretching of the films in the machine direction, and then a second after the films have been stretched in the transverse direction, this enabling greater control to be exercised over the respective degrees of shrinkage in the machine and transverse directions. Hence the preference for sequential rather simultaneous stretching, apart from the problems with the latter in producing films including voids in one or more of their layers.

Biaxial stretching of the films used in accordance with the present invention is preferably effected by a factor of from 3.5 to 7:1 in the machine direction and by from 5 to 10:1 in the transverse direction.

Annealing of the films following their being stretched in the machine direction is preferably effected at a temperature of less than 112°C, compared with conventional temperatures in

excess of 115°C, this annealing being more preferably effected at temperatures of less than 105°C, and advantageously less than 100°C, particularly high shrinkages having been achieved at annealing temperatures of about 97°C following stretching of the films in the machine direction, for example at temperatures of about 116°C. Annealing of the films in the machine direction is preferably effected by passing them over the surface of a plurality of rollers each with outer surfaces at the desired annealing temperature, the rollers each having substantially the same peripheral speeds so that the stretched length of the films in the machine direction is substantially maintained during the annealing process, i.e. there is substantially no stretching or relaxation of the film in the machine direction during the annealing process.

Annealing of the films following their being stretched in the transverse direction is preferably effected at a temperature of less than 145°C, compared with conventional temperatures of about 150C, this annealing being more preferably effected at temperatures of less than 140°C, and advantageously less than 130°C, particularly high shrinkages in the transverse direction having been achieved at annealing temperatures of less than 120°C, and especially less than 120°C following stretching of the films in the machine direction, for example at temperatures of less than 115°C, such as 105°C. Annealing of the films in the transverse direction is preferably effected by passing them over the surface of a number of rollers with outer surfaces at the desired annealing temperature whilst substantially maintaining the stretched width of the films, i.e. it is preferred that there is substantially no stretching or relaxation of the films in the transverse direction during the annealing process.

Once the films have been annealed following their having been biaxially stretched, at least one surface is preferably treated to increase its surface energy, for example by flame or corona discharge treatment, following which it is wound up.

The films can then be printed and cut to the shape and size required for the subsequent blow in-mold labelling process which can be effected in known manner.

Films used as labels in accordance with the present invention can be of a variety of thicknesses, but in general they should be at least 60µm thick to facilitate processing in the in-mold labelling process itself. However, the films will not usually be more than 120µm thick due to mechanical constraints in the formation of biaxially stretched films of such thicknesses.

The following Examples are given by way of illustration only.

Example 1

A three layer polymeric web was by coextruding through a slot die a core layer consisting of a propylene homopolymer containing 6wt% of titanium dioxide with a mean particle size of less than 1µm as a pigment and 2.1wt% of chalk with a mean particle size of 3µm as a voiding agent, with two outer layers each consisting of a propylene/ethylene copolymer (4wt% ethylene) on the surface of the core layer.

The web was cooled and it was then stretched 4.5 times in the direction of extrusion by passing it over heated rollers with differing peripheral speeds, the rollers being heated to a temperature of 116°C. The stretched film was then annealed by passing it over a series of annealing rollers with peripheral speeds substantially the same as that of the last of the rollers effecting stretching in the machine direction, the temperature of these annealing rollers being 97°C.

The mono-axially stretched web was then stretched 8 times in the transverse direction using a stenter oven at a temperature of 159°C, following which it was annealed at a temperature of 105°C with substantially no change in the width of the film.

Thereafter, the film was corona discharge treated on the first outer layer and wound up. The film had a total thickness of 80µm, the copolymer layer being 2.5µm thick, the terpolymer layer being 2µm thick, and the core layer being 76.5µm thick.

The film had a shrinkage in the machine direction of 7.6% and in the transverse direction of 11.4% as measured by the OPMA shrink test in which the film is suspended in an oven at 130°C for a period of 10 minutes. The density of the film was 0.8g/cm³.

The film was then cut into labels which were used to label blow molded containers by insertion of the film into the mold before the containers were formed. The labels of the resulting labelled containers showed neither an "orange peel" effect nor blistering.

Example 2 (comparison)

A three layered polymeric film was produced substantially as described in Example 1 except that annealing in the machine direction was effected at a temperature of 116°C and in the transverse direction it was effected at a temperature of 150°C.

The film, which had layer thicknesses and a total thickness as given in Example 1, had a shrinkage of 4% in the machine direction and 0.7% in the transverse direction. The density of the film was 0.8g/cm³.

When used for in-mold labelling under substantially the same conditions used for the film of Example 1, blisters were noticed under the label even though there was no "orange peel" effect.

Claims

- 1. An in-mold labelled, blow-molded article formed from high density polyethylene, the label being formed from a biaxially oriented polypropylene based film having a shrinkage of at least 4% in both the machine and transverse directions as measured by the OPMA shrink test in which the film is suspended in an oven at 130°C for a period of 10 minutes.
- 2. An article according to claim 1, wherein the shrinkage of the film in the transverse direction is at least 5%.
- 3. An article according to either of the preceding claims, wherein the shrinkage of the film in the transverse direction is at least 6%.
- 4. An article according to any of the preceding claims, wherein the shrinkage of the film in the machine direction is at least 5%.
- 5. An article according to any of the preceding claims, wherein the shrinkage of the film in the machine direction is at least 6%.
- 6. An article according to any of the preceding claims, wherein the film comprises a polypropylene homopolymer base layer with at least one outer layer thereon.
- 7. An article according to claim 6, wherein the outer layer or layers comprises a heat sealable polymer.
- 8. An article according to claim 6 or claim 7, wherein the base layer contains a hydrogenated hydrocarbon resin.
- 9. An article according to any of the preceding claims, wherein the film comprises a base layer comprising a propylene homopolymer, at least one intermediate polyolefin layer on the base layer, and an outer layer on the intermediate layer.

- 10. An article according to claim 9, wherein the base layer and/or the intermediate layer contains a hydrogenated hydrocarbon resin.
- 11. An-mold labelled, blow-molded article substantially as herein described with reference to Example 1.

INTERNA NAL SEARCH REPORT

Inte onal Application No PCT/EP 99/06272

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B29C49/24				
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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category '	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.	
X	US 5 223 315 A (TANAHASHI TOSHIF AL) 29 June 1993 (1993-06-29) column 6, line 25 - line 37 column 6, line 61 -column 7, lin column 9, line 1 -column 10, lin table 1	e 2	1-11	
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Not yet published	27 August 1998 (27.08.98)
Applicant	27 Adgust 1000 (27.00.00)
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REQUEST

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	This person is for the purpose	s applicant all designated ses of: all designated		d States except tates of America	the United States of America only the States indicated in the Supplemental Box				
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designation are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant

at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

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Sheet No. . 3.....

Box No. VI PRIORITY	LA.	Further price	ority claims are indicated	d in the Supplemental Box				
Filing date of earlier application	Number of earlier application		Where earlier application is:					
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Viola Kremer (38057)								
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file refere	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/moi	nth/year) Priority date (day/month/year)						
PCT/EP99/06272	26/08/1999	27/08/1998						
International Patent Classificati B29C49/24	International Patent Classification (IPC) or national classification and IPC B29C49/24							
Applicant HOECHST TRESPAPHA	AN GMBH et al.							
	minary examination report has been prepar e applicant according to Article 36.	ed by this International Preliminary Examining Authority						
2. This REPORT consists	of a total of 5 sheets, including this cover	sheet.						
been amended an	d are the basis for this report and/or sheets and Section 607 of the Administrative Instru	the description, claims and/or drawings which have scontaining rectifications made before this Authority ctions under the PCT).						
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	nd explanations suporting such statement	o noverty, inventive step of industrial applicability,						
VI □ Certain do	ocuments cited							
VII ☐ Certain de	fects in the international application							
VIII Certain ob	servations on the international application							
Date of submission of the dem	and Date	of completion of this report						
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' INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/06272

I. Basis	of t	he r	eport
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1.	res _i the	oonse to an invitation	awn on the basis of (substitute sheets which have been furnished to the receiving Office in a under Article 14 are referred to in this report as "originally filed" and are not annexed to not contain amendments (Rules 70.16 and 70.17).):
	1-9	i	as originally filed
	Cla	ims, No.:	
	1-1	1 :	as originally filed
2.	lang	guage in which the ir	uage, all the elements marked above were available or furnished to this Authority in the iternational application was filed, unless otherwise indicated under this item.
		the language of a to	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pul	olication of the international application (under Rule 48.3(b)).
		the language of a to 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
		filed together with t	he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.			en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/06272

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Add	litional observations, if ne	ecessary	/ :		
III.	Nor	n-establishment of opin	ion with	n regard t	to novelty, inventive step and industrial applicability	
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international a	pplication	on.		
	Ø	claims Nos. 11.				
because:						
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (<i>specify</i>):				
	×	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify): see separate sheet				
		the claims, or said claim could be formed.	s Nos.	are so in	nadequately supported by the description that no meaningful opinion	
		no international search	report h	as been e	established for the said claims Nos	
2.	 A meaningful international preliminary examination report cannot be carried out due to the failure of the nucleous and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 					
the computer readable form has not been furnished or does not comply with the standard.					en furnished or does not comply with the standard.	
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Sta	Statement				
	Nov	velty (N)	Yes: No:	Claims Claims		
	Inve	entive step (IS)	Yes: No:	Claims Claims		
	Indi	ustrial applicability (IA)	Yes:	Claims	1-10	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/06272

No: Claims

2. Citations and explanations see separate sheet

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1. Re item III:

1. Claim 11 is not allowable. According to Rule 6.2(a) PCT claims shall not rely, in respect of the technical features of the invention, on references to the description or drawings.

2. Re item V:

1.1 Document US 5 223 315 A (D1) - see particularly col. 1, lines 38 to 47 and col. 2, lines 5 to 10 - deals with the same problem as the present application, namely to improve adhesion of labels made from polyolefin films to articles formed by inmold blowing/in-mold labelling from polyolefin parisons. Poor adhesion results in blisters under the labels, and/or undesirable effects on the labels themselves caused by the heat to which the polymeric films are subjected during formation of the articles, such as distortion and "orange peel" effects.

The solution to this problem is based in D1 as well as in the present application on the recognition that films which shrink significantly when subjected to the temperatures to which they are subjected during in-mold labelling should be used. This is in contrast to the widely held belief in the art that labels should have the minimum possible shrinkage at such temperatures.

- 1.2 If one compares the subject-matter of claim 1 with the disclosure of D1 it appears that claim 1 is anticipated by D1. (However, since the OPMA shrink test is unknown to the examiner novelty cannot unambiguously be denied.)
 - In any case, in the light of the previous explanations (at least) nothing inventive can be seen in the subject-matter of claim 1.
- The additional features of dependent claims 2 to 10 seem to add nothing 2. inventive to the subject-matter of independent claim 1, since their features are either known from D1 or appear to be obvious to one skilled in the art.

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PATENT COOPERATION TREATY REC'D 28 NOV 2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

International application No. International polication No. International polication No. International Patent Classification (IPC) or national classification and IPC International Patent Classification (IPC) or national classification and IPC International Patent Classification (IPC) or national classification and IPC International preliminary examination report has been prepared by this International Preliminary Examining Authoriand is transmitted to the applicant according to Article 36. This international preliminary examination report has been prepared by this International Preliminary Examining Authoriand is transmitted to the applicant according to Article 36. This REPORT consists of a total of 5 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. This report contains indications relating to the following items: I S Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement VI Certain documents cited VII Certain documents cited Date of submission of the demand Date of completion of this report 20/03/2000 24.11.2000 Jame and malling address of the international refirminary examining authority: Expression of the demand Date of submission of the demand Date of submission of the international refirminary examining authority: Expression of the demand Date of submission of the demand Date of submission of the international refirminary examining authority: Expression of the demand of the priorit	Applicant's o	or age	nt's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/06272

••							
1.	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:						
	1-9		as originally filed				
	Clai	ims, No.:					
	1-11	1	as originally filed				
2.	With lang	n regard to the lang guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.				
	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pu	ublication of the international application (under Rule 48.3(b)).				
	the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the in	ternational application in written form.				
		filed together with	the international application in computer readable form.				
		furnished subsequ	ently to this Authority in written form.				
		furnished subsequ	ently to this Authority in computer readable form.				
			t the subsequently furnished written sequence listing does not go beyond the disclosure in pplication as filed has been furnished.				
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	The	amendments have	e resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		•	een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):				

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/06272

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Add	ditional observations, if ne	ecessar	y:							·
III.	Noi	n-establishment of opin	ion wit	h regard	to novelt	y, inventiv	ve step ar	nd industri	al applica	ability	
		uestions whether the clair e industrially applicable h						n inventive	step (to b	oe non-ob	vious),
		the entire international a	applicati	on.							
	×	claims Nos. 11.									
be	caus	se:									
		the said international ap not require an internation						following s	ubject ma	tter which	does
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so that no meaningful opinion could be formed (specify): see separate sheet							ınclear				
		the claims, or said claim could be formed.	ns Nos.	are so in	adequate	ly supporte	ed by the o	description	that no m	ieaningful	opinion
		no international search	report h	as been	establishe	d for the s	aid claims	Nos			
2.	and	neaningful international p d/or amino acid sequence tructions:									
		the written form has not	been fu	urnished (or does no	ot comply v	with the st	andard.			
		the computer readable	form ha	s not bee	n furnishe	d or does	not compl	y with the s	tandard.		
V.		asoned statement unde ations and explanations					ty, invent	ive step or	industri	al applica	ability;
1.	Sta	tement									-
	Nov	velty (N)	Yes: No:	Claims Claims	1-10						
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-10						
	Ind	ustrial applicability (IA)	Yes:	Claims	1-10						

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INTERNATIONAL PRELIMINARY

Claims No:

2. Citations and explanations see separate sheet

1. Re item III:

1. Claim 11 is not allowable. According to Rule 6.2(a) PCT claims shall not rely, in respect of the technical features of the invention, on references to the description or drawings.

2. Re item V:

1.1 Document US 5 223 315 A (D1) - see particularly col. 1, lines 38 to 47 and col. 2, lines 5 to 10 - deals with the same problem as the present application, namely to improve adhesion of labels made from polyolefin films to articles formed by inmold blowing/in-mold labelling from polyolefin parisons. Poor adhesion results in blisters under the labels, and/or undesirable effects on the labels themselves caused by the heat to which the polymeric films are subjected during formation of the articles, such as distortion and "orange peel" effects.

The solution to this problem is based in D1 as well as in the present application on the recognition that films which shrink significantly when subjected to the temperatures to which they are subjected during in-mold labelling should be used. This is in contrast to the widely held belief in the art that labels should have the minimum possible shrinkage at such temperatures.

- 1.2 If one compares the subject-matter of claim 1 with the disclosure of D1 <u>it appears</u> that claim 1 is anticipated by D1. (However, since the OPMA shrink test is unknown to the examiner novelty cannot unambiguously be denied.)
 - In any case, in the light of the previous explanations (at least) nothing inventive can be seen in the subject-matter of claim 1.
- 2. The additional features of dependent claims 2 to 10 seem to add nothing inventive to the subject-matter of independent claim 1, since their features are either known from D1 or appear to be obvious to one skilled in the art.